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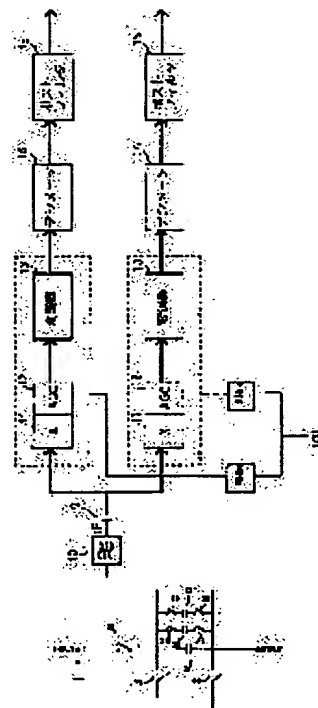
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(54) RECEIVER FOR RECEIVING MODULATED CARRIER SIGNAL AND IQ MIXER/DEMODULATOR USING ITS RECEIVING CONSTITUTION

(57)Abstract:

PURPOSE: To reduce the space, cost, and power consumption of a receiver by down-converting carrier frequency signals by using a temporally discrete sample extracting means.

CONSTITUTION: A receiver uses a sigma/delta analog/digital modulator having a wide dynamic input range and a mixer 11 in the modulator is constituted by using change-over capacitor switching elements 30-39. The elements 30-39 are driven by local oscillation signals LO1 of rectangular waves having a frequency which is equal or close to that of IF signals and give the mixer 11 a mixing function. An automatic gain controller 12 is also constituted of change-over switching elements. Consequently, the switch 31 functions as the mixer 11 and IF signals and their multiple signals are held at a fundamental frequency. Therefore, the need of a sine wave oscillator is eliminated.



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